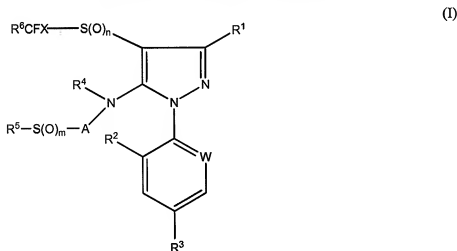


1. (Withdrawn) A compound of formula (I):



R¹ is CSNH₂;

W is C-halogen or N;

R² is hydrogen or Cl;

R^3 is CF_3 , OCF_3 or SF_5 ;

R⁴ is hydrogen, (C₂-C₆)-alkenyl, (C₂-C₆)-haloalkenyl, (C₂-C₆)-alkynyl, (C₂-C₆)-haloalkynyl, (C₃-C₇)-cycloalkyl, (C₃-C₇)-cycloalkyl-(C₁-C₆)-alkyl, CO₂—(C₃-C₆)-alkenyl, CO₂—(C₃-C₆)-alkynyl, —CO₂—(CH₂)₄—R⁷, —CH₂R⁷, —CH₂R⁹, OR⁷, OR⁸, COCO₂R¹⁰ or COCONR¹⁰R¹¹, or CO₂—(C₁-C₃)-alkyl unsubstituted or substituted by one or more radicals selected from the group consisting of halogen, (C₁-C₃)-alkoxy and (C₁-C₃)-alkylthio; or (C₁-C₆)-alkyl unsubstituted or substituted by one or more radicals selected from the group consisting of halogen, (C₁-C₆)-alkoxy, (C₁-C₆)-haloalkoxy, (C₃-C₇)-cycloalkyl, S(O)_nR⁸ and CO₂—(C₁-C₆)-alkyl;

A is (C₁-C₆)-alkylene or (C₁-C₆)-haloalkylene;

R⁵ is (C₂-C₆)-alkenyl, (C₂-C₆)-haloalkenyl, (C₂-C₆)-alkynyl, (C₃-C₆)-cycloalkyl or $\text{---}(\text{CH}_2)_q\text{R}^7$; or (C₁-C₆)-alkyl unsubstituted or substituted by one or more radicals selected from the group consisting of halogen, (C₁-C₆)-alkoxy, (C₁-C₆)-haloalkoxy, (C₃-C₇)-cycloalkyl, S(O)_pR⁸ and CO₂—(C₁-C₆)-alkyl;

X is F or Cl;

R⁶ is F, Cl or Br;

R⁷ is phenyl unsubstituted or substituted by one or more radicals selected from the group consisting of halogen, (C₁-C₆)-alkyl, (C₁-C₆)-haloalkyl, (C₁-C₆)-alkoxy, (C₁-C₆)-haloalkoxy, CN, NO₂, S(O)_pR⁸, CO₂—(C₁-C₆)-alkyl, COR⁸, NR¹²R¹³ and OH;

R⁸ is (C₁-C₆)-alkyl or (C₁-C₆)-haloalkyl;

R⁹ is a heteroaromatic radical having 5 or 6 ring atoms and 1, 2 or 3 hetero atoms in the ring selected from the group consisting of N, O and S, unsubstituted or substituted by one or more radicals selected from the group consisting of halogen, (C₁-C₄)-alkyl, (C₁-C₄)-haloalkyl, (C₁-C₄)-alkoxy, (C₁-C₄)-haloalkoxy, NO₂, CN, CO₂(C₁-C₆)-alkyl, S(O)_pR⁸ and OH;

R¹⁰ and R¹¹ are each independently H or R⁵;

or the radical NR¹⁰R¹¹ forms a five- to seven-membered saturated ring which optionally contains an additional hetero atom in the ring which is selected from O, S and N, the ring being unsubstituted or substituted by one or more radicals selected from the group consisting of halogen, (C₁-C₆)-alkyl, (C₁-C₆)-haloalkyl and CO₂—(C₁-C₆)-alkyl;

R¹² and R¹³ are each independently H or (C₁-C₆)-alkyl;

m, n and p are each independently zero, one or two; and

q is zero or one;

or a pesticidally acceptable salt thereof.

2. (Withdrawn) A compound or a salt thereof as claimed in claim 1 wherein R⁶ and X are both F.

3. (Withdrawn) A compound or a salt thereof as claimed in claim 1 wherein

R¹ is CSNH₂;

W is C—Cl;

R² is Cl;

R³ is CF₃ or OCF₃;

R⁴ is (C₂-C₄)-alkenyl, (C₂-C₄)-alkynyl, (C₃-C₇)-cycloalkyl, CO₂—(C₁-C₃)-alkyl, CO₂—(C₃-C₄)-alkenyl, CO₂—(C₃-C₄)-alkynyl or —CO₂—(CH₂)_q—R⁷; or (C₁-C₃)-alkyl unsubstituted or substituted by one or more radicals selected from the group consisting of halogen, (C₁-C₃)-alkoxy, (C₁-C₃)-haloalkoxy, (C₃-C₇)-cycloalkyl, S(O)_pR⁸ and CO₂—(C₁-C₃)-alkyl;

A is (C₁-C₄)-alkylene or (C₁-C₄)-haloalkylene;

R⁵ is (C₃-C₆)-cycloalkyl or —(CH₂)_qR⁷; or (C₁-C₃)-alkyl unsubstituted or substituted by one or more radicals selected from the group consisting of halogen, (C₁-C₃)-alkoxy, (C₁-C₃)-haloalkoxy, (C₃-C₆)-cycloalkyl, S(O)_pR⁸ and CO₂—(C₁-C₃)-alkyl;

X is F or Cl;

R⁶ is F or Cl;

R⁷ is phenyl unsubstituted or substituted by one or more radicals selected from the group consisting of halogen, (C₁-C₃)-alkyl, (C₁-C₃)-haloalkyl, (C₁-C₃)-alkoxy, (C₁-C₃)-haloalkoxy, CN, NO₂, S(O)_pR⁸, CO₂—(C₁-C₃)-alkyl, COR⁸, NR¹²R¹³ and OH;

R⁸ is (C₁-C₃)-alkyl or (C₁₁-C₃)-haloalkyl;

R¹² and R¹³ are each independently H or (C₁-C₃)-alkyl;

m, n and p are each independently zero, one or two; and

q is zero or one.

4. (Withdrawn) A compound or a salt thereof as claimed in claim 1 wherein

R^1 is $CSNH_2$;

W is $C-Cl$;

R^2 is Cl ;

R^3 is CF_3 or OCF_3 ;

R^4 is $CO_2-(C_1-C_3)\text{-alkyl}$, $CO_2-(C_3-C_4)\text{-alkenyl}$, $CO_2-(C_3-C_4)\text{-alkynyl}$ or

$-CO_2-(CH_2)_q-R^7$; or $(C_1-C_3)\text{-alkyl}$;

A is $(C_1-C_4)\text{-alkylene}$;

R^5 is $(C_3-C_6)\text{-cycloalkyl}$ or $-(CH_2)_qR^7$; or $(C_1-C_3)\text{-alkyl}$ unsubstituted or substituted by one or more radicals selected from the group consisting of halogen, $(C_1-C_3)\text{-alkoxy}$, $(C_1-C_3)\text{-haloalkoxy}$, $(C_3-C_6)\text{-cycloalkyl}$, $S(O)_pR^8$ and $CO_2-(C_1-C_3)\text{-alkyl}$;

X is F or Cl;

R^6 is F or Cl;

R^7 is phenyl unsubstituted or substituted by one or more radicals selected from the group consisting of halogen, $(C_1-C_3)\text{-alkyl}$, $(C_1-C_3)\text{-haloalkyl}$, $(C_1-C_3)\text{-alkoxy}$, $(C_1-C_3)\text{-haloalkoxy}$, CN, NO_2 and $S(O)_pR^8$;

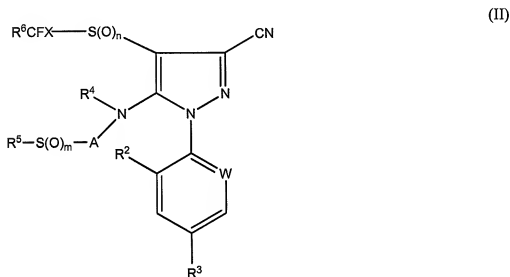
R^8 is $(C_1-C_3)\text{-alkyl}$ or $(C_1-C_3)\text{-haloalkyl}$;

m, n and p are each independently zero, one or two; and

q is zero or one.

5. (Withdrawn) A process for the preparation of a compound of formula (I) or a salt thereof as defined in claim 1, which process comprises:

a) when R^1 is $CSNH_2$, and $R^2, R^3, R^4, R^5, R^6, W, A, X, m$ and n are as defined in claim 1, reacting a compound of formula (II):



wherein $R^2, R^3, R^4, R^5, R^6, W, A, X, m$ and n are as defined in formula (I), with an alkali or alkaline earth metal hydrosulfide; or

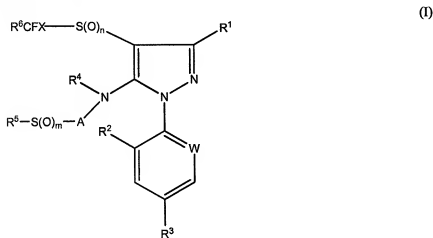
b) when R^1 is $CSNH_2$, and $R^2, R^3, R^4, R^5, R^6, W, A, X, m$ and n are as defined in claim 1, reacting a compound of formula (II) as defined above with a bis(trialkylsilyl)sulfide, in the presence of a base; and

(c) if desired, converting a resulting compound of formula (I) into a pesticidally acceptable salt thereof.

6. (Withdrawn) A pesticidal composition comprising a pesticidally effective amount of a compound of formula (I) or a pesticidally acceptable salt thereof as defined claim 1, in association with a pesticidally acceptable diluent or carrier and/or surface active agent.

7-8. (Cancelled).

9. (Currently amended) A method for controlling pests at a locus which comprises applying to said locus a pesticidally effective amount of a compound of formula (I)



wherein:

R¹ is CSNH₂;

W is C-halogen or N;

R² is hydrogen or Cl;

R³ is CF₃, OCF₃ or SF₅;

R⁴ is (C₂-C₆)-alkenyl, (C₂-C₆)-haloalkenyl, (C₂-C₆)-alkynyl, (C₂-C₆)-haloalkynyl, (C₃-C₇)-cycloalkyl, (C₃-C₇)-cycloalkyl-(C₁-C₆)-alkyl, CO₂-(C₃-C₆)-alkenyl, CO₂-(C₃-C₆)-alkynyl, —CO₂—(CH₂)₄—R⁷, —CH₂R⁷, —CH₂R⁹, OR⁷, OR⁸, COCO₂R¹⁰ or COCONR¹⁰R¹¹; or CO₂-(C₁-C₃)-alkyl unsubstituted or substituted by one or more radicals selected from the group consisting of halogen, (C₁-C₃)-alkoxy and (C₁-C₃)-alkylthio; or (C₁-C₆)-alkyl unsubstituted or substituted by one or more radicals selected from the group consisting of halogen, (C₁-C₆)-alkoxy, (C₁-C₆)-haloalkoxy, (C₃-C₇)-cycloalkyl, S(O)_pR⁸ and CO₂-(C₁-C₆)-alkyl;

A is (C₂-C₆)-alkylene or (C₂-C₆)-haloalkylene;

R⁵ is (C₂-C₆)-alkenyl, (C₂-C₆)-haloalkenyl, (C₂-C₆)-alkynyl, (C₃-C₆)-cycloalkyl or $-(CH_2)_qR^7$, or (C₁-C₆)-alkyl unsubstituted or substituted by one or more radicals selected from the group consisting of halogen, (C₁-C₆)-alkoxy, (C₁-C₆)-haloalkoxy, (C₃-C₇)-cycloalkyl, S(O)_pR⁸ and CO₂-(C₁-C₆)-alkyl;

X is F or Cl;

R⁶ is F, Cl or Br;

R⁷ is phenyl unsubstituted or substituted by one or more radicals selected from the group consisting of halogen, (C₁-C₆)-alkyl, (C₁-C₆)-haloalkyl, (C₁-C₆)-alkoxy, (C₁-C₆)-haloalkoxy, CN, NO₂, S(O)_pR⁸, CO₂-(C₁-C₆)-alkyl, COR⁸, NR¹²R¹³ and OH;

R⁸ is (C₁-C₆)-alkyl or (C₁-C₆)-haloalkyl;

R⁹ is a heteroaromatic radical having 5 or 6 ring atoms and 1, 2 or 3 hetero atoms in the ring selected from the group consisting of N, O and S, unsubstituted or substituted by one or more radicals selected from the group consisting of halogen, (C₁-C₄)-alkyl, (C₁-C₄)-haloalkyl, (C₁-C₄)-alkoxy, (C₁-C₄)-haloalkoxy, NO₂, CN, CO₂-(C₁-C₆)-alkyl, S(O)_pR⁸ and OH;

R¹⁰ and R¹¹ are each independently H or R⁵;

or the radical NR¹⁰R¹¹ forms a five- to seven-membered saturated ring which optionally contains an additional hetero atom in the ring which is selected from O, S and N, the ring being unsubstituted or substituted by one or more radicals selected from the group consisting of halogen, (C₁-C₆)-alkyl, (C₁-C₆)-haloalkyl and CO₂-(C₁-C₆)-alkyl;

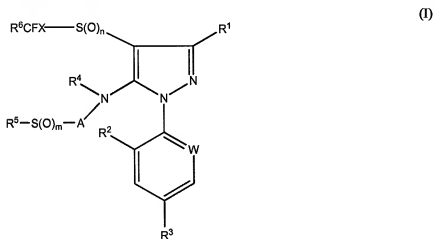
R¹² and R¹³ are each independently H or (C₁-C₆)-alkyl;

m, n and p are each independently zero, one or two; and

q is zero or one;

or a salt thereof as claimed in claim 1.

10. (Currently amended) A method for controlling pests at a locus which comprises applying to said locus a pesticidally effective amount of a composition ~~as claimed in claim 6~~ comprising a pesticidally effective amount of a compound of formula (I)



wherein:

R^1 is $CSNH_2$;

W is C-halogen or N;

R^2 is hydrogen or Cl;

R^3 is CF_3 , OCF_3 or SF_5 ;

R^4 is (C₂-C₆)-alkenyl, (C₂-C₆)-haloalkenyl, (C₂-C₆)-alkynyl, (C₂-C₆)-haloalkynyl, (C₃-C₇)-cycloalkyl, (C₃-C₇)-cycloalkyl-(C₁-C₆)-alkyl, CO₂-(C₃-C₆)-alkenyl, CO₂-(C₃-C₆)-alkynyl, —CO₂—(CH₂)_q—R⁷, —CH₂R⁷, —CH₂R⁹, OR⁷, OR⁸, COCO₂R¹⁰ or COCONR¹⁰R¹¹; or CO₂-(C₁-C₃)-alkyl unsubstituted or substituted by one or more radicals selected from the group consisting of halogen, (C₁-C₃)-alkoxy and (C₁-C₃)-alkylthio; or (C₁-C₆)-alkyl unsubstituted or substituted by one or more radicals selected from the group consisting of halogen, (C₁-C₆)-alkoxy, (C₁-C₆)-haloalkoxy, (C₃-C₇)-cycloalkyl, S(O)_pR⁸ and CO₂-(C₁-C₆)-alkyl;

A is (C₂-C₆)-alkylene or (C₂-C₆)-haloalkylene;

R⁵ is (C₂-C₆)-alkenyl, (C₂-C₆)-haloalkenyl, (C₂-C₆)-alkynyl, (C₃-C₆)-cycloalkyl or —(CH₂)_qR⁷;
or (C₁-C₆)-alkyl unsubstituted or substituted by one or more radicals selected from the group
consisting of halogen, (C₁-C₆)-alkoxy, (C₁-C₆)-haloalkoxy, (C₃-C₇)-cycloalkyl, S(O)_pR⁸ and
CO₂—(C₁-C₆)-alkyl;

X is F or Cl;

R⁶ is F, Cl or Br;

R⁷ is phenyl unsubstituted or substituted by one or more radicals selected from the group
consisting of halogen, (C₁-C₆)-alkyl, (C₁-C₆)-haloalkyl, (C₁-C₆)-alkoxy, (C₁-C₆)-haloalkoxy, CN,
NO₂, S(O)_pR⁸, CO₂—(C₁-C₆)-alkyl, COR⁸, NR¹²R¹³ and OH;

R⁸ is (C₁-C₆)-alkyl or (C₁-C₆)-haloalkyl;

R⁹ is a heteroaromatic radical having 5 or 6 ring atoms and 1, 2 or 3 hetero atoms in the ring
selected from the group consisting of N, O and S, unsubstituted or substituted by one or more
radicals selected from the group consisting of halogen, (C₁-C₄)-alkyl, (C₁-C₄)-haloalkyl, (C₁-C₄)-
alkoxy, (C₁-C₄)-haloalkoxy, NO₂, CN, CO₂(C₁-C₆)-alkyl, S(O)_pR⁸ and OH;

R¹⁰ and R¹¹ are each independently H or R⁵;

or the radical NR¹⁰R¹¹ forms a five- to seven-membered saturated ring which optionally contains
an additional hetero atom in the ring which is selected from O, S and N, the ring being
unsubstituted or substituted by one or more radicals selected from the group consisting of
halogen, (C₁-C₆)-alkyl, (C₁-C₆)-haloalkyl and CO₂—(C₁-C₆)-alkyl;

R¹² and R¹³ are each independently H or (C₁-C₆)-alkyl;

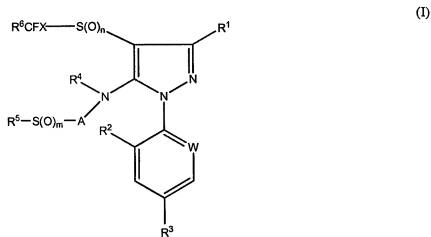
m, n and p are each independently zero, one or two; and

q is zero or one;

or a pesticidally acceptable salt thereof, in association with a pesticidally acceptable diluent or
carrier and/or surface active agent.

11. (Withdrawn) A veterinary medicament comprising a pesticidally effective amount of a compound of formula (I) or a salt thereof as claimed in claim 1, in association with a veterinarily acceptable diluent or carrier and/or surfact active agent.

12. (Currently amended) A method for the control of pests in or on an animal which comprises administering to said animal a pesticidally effective amount of a compound of formula (I)



wherein:

R¹ is CSNH₂;

W is C-halogen or N;

R² is hydrogen or Cl;

R³ is CF₃, OCF₃ or SF₃;

R⁴ is (C₂-C₆)-alkenyl, (C₂-C₆)-haloalkenyl, (C₂-C₆)-alkynyl, (C₂-C₆)-haloalkynyl, (C₃-C₇)-cycloalkyl, (C₃-C₇)-cycloalkyl-(C₁-C₆)-alkyl, CO₂-(C₃-C₆)-alkenyl, CO₂-(C₃-C₆)-alkynyl, —CO₂—(CH₂)_q—R⁷, —CH₂R⁷, —CH₂R⁹, OR⁷, OR⁸, COCO₂R¹⁰ or COCONR¹⁰R¹¹, or CO₂-(C₁-C₃)-alkyl unsubstituted or substituted by one or more radicals selected from the group consisting of halogen, (C₁-C₃)-alkoxy and (C₁-C₃)-alkylthio; or (C₁-C₆)-alkyl unsubstituted or substituted by one or more radicals selected from the group consisting of halogen, (C₁-C₆)-alkoxy, (C₁-C₆)-haloalkoxy, (C₃-C₇)-cycloalkyl, S(O)_pR⁸ and CO₂-(C₁-C₆)-alkyl;

A is (C₂-C₆)-alkylene or (C₂-C₆)-haloalkylene;

R⁵ is (C₂-C₆)-alkenyl, (C₂-C₆)-haloalkenyl, (C₂-C₆)-alkynyl, (C₃-C₆)-cycloalkyl or —(CH₂)_qR⁷;
or (C₁-C₆)-alkyl unsubstituted or substituted by one or more radicals selected from the group
consisting of halogen, (C₁-C₆)-alkoxy, (C₁-C₆)-haloalkoxy, (C₃-C₇)-cycloalkyl, S(O)_pR⁸ and
CO₂—(C₁-C₆)-alkyl;

X is F or Cl;

R⁶ is F, Cl or Br;

R⁷ is phenyl unsubstituted or substituted by one or more radicals selected from the group
consisting of halogen, (C₁-C₆)-alkyl, (C₁-C₆)-haloalkyl, (C₁-C₆)-alkoxy, (C₁-C₆)-haloalkoxy, CN,
NO₂, S(O)_pR⁸, CO₂—(C₁-C₆)-alkyl, COR⁸, NR¹²R¹³ and OH;

R⁸ is (C₁-C₆)-alkyl or (C₁-C₆)-haloalkyl;

R⁹ is a heteroaromatic radical having 5 or 6 ring atoms and 1, 2 or 3 hetero atoms in the ring
selected from the group consisting of N, O and S, unsubstituted or substituted by one or more
radicals selected from the group consisting of halogen, (C₁-C₄)-alkyl, (C₁-C₄)-haloalkyl, (C₁-C₄)-
alkoxy, (C₁-C₄)-haloalkoxy, NO₂, CN, CO₂(C₁-C₆)-alkyl, S(O)_pR⁸ and OH;

R¹⁰ and R¹¹ are each independently H or R⁵;

or the radical NR¹⁰R¹¹ forms a five- to seven-membered saturated ring which optionally contains
an additional hetero atom in the ring which is selected from O, S and N, the ring being
unsubstituted or substituted by one or more radicals selected from the group consisting of
halogen, (C₁-C₆)-alkyl, (C₁-C₆)-haloalkyl and CO₂—(C₁-C₆)-alkyl;

R¹² and R¹³ are each independently H or (C₁-C₆)-alkyl;

m, n and p are each independently zero, one or two; and

q is zero or one;

or a salt thereof ~~as claimed in claim 1.~~

13. (Cancelled).
14. (Withdrawn) A compound or salt thereof as claimed in claim 3 wherein R^6 and X are both F.
15. (Withdrawn) A compound or salt thereof as claimed in claim 4 wherein R^6 and X are both F.
16. (Withdrawn) A compound or salt thereof as claimed in claim 1 wherein R^1 is $CSNH_2$, W is $C-C^1$, R^2 is C^1 , R^3 is CF_3 and R^4 is CH_3 .
17. (Withdrawn) The compound or salt thereof as claimed in claim 16, wherein:
- (a) A is CH_2CH_2 , $R^5S(O)_m$ is CH_3S and $R^6CFX-S(O)_n$ is CF_3S ;
 - (b) A is CH_2CH_2 , $R^5S(O)_m$ is CH_3SO and $R^6CFX-S(O)_n$ is CF_3S ;
 - (c) A is CH_2CH_2 , $R^5S(O)_m$ is CH_3SO_2 and $R^6CFX-S(O)_n$ is CF_3S ;
 - (d) A is CH_2CH_2 , $R^5S(O)_m$ is CH_3S and $R^6CFX-S(O)_n$ is CF_3SO ;
 - (e) A is CH_2CH_2 , $R^5S(O)_m$ is CH_3SO and $R^6CFX-S(O)_n$ is CF_3SO ;
 - (f) A is CH_2CH_2 , $R^5S(O)_m$ is CH_3SO_2 and $R^6CFX-S(O)_n$ is CF_3SO ;
 - (g) A is CH_2CH_2 , $R^5S(O)_m$ is CH_3S and $R^6CFX-S(O)_n$ is CF_3SO_2 ;
 - (h) A is CH_2CH_2 , $R^5S(O)_m$ is CH_3SO and $R^6CFX-S(O)_n$ is CF_3SO_2 ; or
 - (i) A is CH_2CH_2 , $R^5S(O)_m$ is CH_3SO_2 and $R^6CFX-S(O)_n$ is CF_3SO_2 .
18. (New) The method according to claim 10 wherein the composition contains from about 0.0001ppm to about 20ppm of compound of formula (I).

19. (New) The method according to claim 18 wherein the composition contains from about 0.001ppm to about 5ppm of compound of formula (I).
20. (New) The method according to claim 12, wherein the pests are fleas and ticks.
21. (New) The method according to claim 12, wherein the animal is a domestic companion animal such as a dog or a cat.